UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,763	11/18/2005	Francine Gervais	50291/014002	9212
21559 CLARK & ELF	7590 03/28/200 BING LLP	EXAMINER		
101 FEDERAL	STREET		EMCH, GREGORY S	
BOSTON, MA 02110			ART UNIT	PAPER NUMBER
			1649	
			NOTIFICATION DATE	DELIVERY MODE
			03/28/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentadministrator@clarkelbing.com

	Application No.	Applicant(s)	
	10/540,763	GERVAIS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Gregory S. Emch	1649	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 24 . This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-79 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-79 are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin 11.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

Art Unit: 1649

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicants are required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-40, drawn to a method of preventing or treating an amyloid- β related disease in a subject, said method comprising administering to a subject in need thereof an effective amount of a first agent that prevents or treats amyloid- β related disease, and a second agent that is (i) a peptide or peptidomimetic that modulates amyloid- β fibril formation or induces a prophylactic or therapeutic immune response against amyloid- β fibril formation, or (ii) an immune system modulator that prevents or inhibits amyloid- β fibril formation.

Group II, claim(s) 41-78, drawn to a pharmaceutical composition for treating a subject comprising a first agent that prevents or treats amyloid- β related disease, and a second agent that is (i) a peptide or peptidomimetic that modulates amyloid- β fibril formation or induces a prophylactic or therapeutic immune response against amyloid- β fibril formation, or (ii) an immune system modulator that prevents or inhibits amyloid- β fibril formation.

Group III, claim(s) 79, drawn to the use of a first agent and a second agent in the preparation of a pharmaceutical composition for the treatment or prevention of an amyloid- β disease, wherein said first agent prevents or treats amyloid- β related disease, and said second agent is (i) a peptide or peptidomimetic that modulates amyloid- β fibril formation or induces a prophylactic or therapeutic immune response against amyloid- β fibril formation, or (ii) an immune system modulator that prevents or inhibits amyloid- β fibril formation.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Application/Control Number: 10/540,763 Page 3

Art Unit: 1649

The technical feature linking Groups I-III is that they all relate to a pharmaceutical composition for treating a subject comprising a first agent that prevents or treats amyloid- β related disease, and a second agent that is (i) a peptide or peptidomimetic that modulates amyloid- β fibril formation or induces a prophylactic or therapeutic immune response against amyloid- β fibril formation, or (ii) an immune system modulator that prevents or inhibits amyloid- β fibril formation. However, WO 99/27944A1 to Schenk teaches methods and compositions for prophylactic and therapeutic treatment of Alzheimer's disease. The compositions comprise an agent(s) that induce(s) a beneficial immune response against an amyloid deposit in the patient, e.g. an A β peptide or an antibody thereto (entire document, e.g., abstract). The '944 document also teaches that agents can be administered with other agents that are effective in treatment of amyloidogenic disease (p.25, lines 16-18). Thus, the technical feature linking the inventions of Groups I-III does not constitute a special technical feature as defined by PCT Rule 13.2, as it does not define a contribution over the prior art.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Amyloid-β related diseases:

- a. Alzheimer's disease
- b. Mild cognitive impairment

Application/Control Number: 10/540,763

Art Unit: 1649

c. Mild-to-moderate cognitive impairment

- d. Vascular dementia
- e. Cerebral amyloid angiopathy
- f. Hereditary cerebral hemorrhage
- g. Senile dementia
- h. Down's syndrome
- i. Inclusion body myositis
- j. Age-related macular degeneration
- k. Hypothyroidism
- I. Cerebrovascular disease
- m. Cardiovascular disease
- n. Memory loss
- o. Anxiety
- p. Apathy
- q. Aggression
- r. Incontinence
- s. Huntington's disease
- t. Amyotrophic lateral sclerosis
- u. Acquired immunodeficiency
- v. Parkinson's disease
- w. Aphasia
- x. Apraxia

Page 4

Application/Control Number: 10/540,763 Page 5

Art Unit: 1649

y. Agnosia

z. Pick disease

aa. Dementia with Lewy bodies

bb. Altered muscle tone

cc. Seizures

dd. Sensory loss

ee. Visual field deficits

ff. Incoordination

gg. Gait disturbance

hh. Transient ischemic attack or stroke

ii. Transient alertness

jj. Attention deficit

kk. Frequent falls

II. Syncope

mm. Neuroleptic sensitivity

nn. Normal pressure hydrocephalus

oo. Subdural hematoma

pp. Brain tumor

qq. Posttraumatic brain injury

rr. Posthypoxic damage

ss. Depression

tt. Delusions

Art Unit: 1649

uu. Illusions

vv. Hallucinations

ww. Sexual disorders

xx. Weight loss

yy. Psychosis

zz. A sleep disturbance

aaa. Behavioral disinhibition

bbb. Poor insight

ccc. Suicidal ideation

ddd. Irritability

eee. Anhedonia

fff. Social withdrawal

ggg. Excessive guilt.

Applicants are required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims

Art Unit: 1649

are added after the election, applicants must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: 1-79.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: they are drawn to a plurality of disease states/pathological conditions with different etiologies, symptoms and treatments.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Third agents:

- 1. An adrenergic
- 2. anti-adrenergic
- 3. Anti-androgen
- 4. Anti-anginal
- 5. Anti-anxiety
- 6. Anticonvulsant
- 7. Antidepressant
- 8. Anti-epileptic

Application/Control Number: 10/540,763

Art Unit: 1649

9. Antihyperlipidemic

- 10. Antihyperlipoproteinemic
- 11. Antihypertensive
- 12. Anti-inflammatory
- 13. Antiobessional
- 14. Antiparkinsonian
- 15. Antipsychotic
- 16. Adrenocortical steroid
- 17. Adrenocortical suppressant
- 18. Aldosterone antagonist
- 19. Amino acid
- 20. Anabolic steroid
- 21. Analeptic
- 22. Androgen
- 23. Blood glucose regulator
- 24. Cardioprotectant
- 25. Cardiovascular
- 26. Cholinergic agonist
- 27. Cholinergic antagonist
- 28. Cholinesterase deactivator or inhibitor
- 29. Cognition adjuvant or enhancer
- 30. Dopaminergic

Page 8

Application/Control Number: 10/540,763

Page 9

Art Unit: 1649

31. Enzyme inhibitor

- 32. Estrogen
- 33. Free oxygen radical scavenger
- 34. GABA agonist
- 35. Glutamate antagonist
- 36. Hormone
- 37. Hypocholesterolemic
- 38. Hypolipidemic
- 39. Hypotensive
- 40. Immunostimulant
- 41. Monoamine oxidase inhibitor
- 42. NMDA antagonist
- 43. AMPA antagonist
- 44. Opioid antagonist
- 45. Potassium channel opener
- 46. Non-hormonal sterol derivative
- 47. Post-stroke and post-head trauma treatment
- 48. Prostaglandin
- 49. Psychotropic
- 50. Sedative
- 51. Sedative-hypnotic
- 52. Selective adenosine antagonist

Application/Control Number: 10/540,763 Page 10

Art Unit: 1649

53. Serotonin antagonist

54. Selective serotonin uptake inhibitor

55. Serotonin receptor antagonist

56. Sodium channel blocker

57. Calcium channel blocker

58. Steroid

59. Stimulant

60. Thyroid hormone or inhibitor agents.

Applicants are required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicants must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) are generic: 1-79.

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or

corresponding special technical features for the following reasons: The species are structurally and functionally distinct agents, wherein each group itself comprises a genus of potential agents.

The examiner has required restriction between product and process claims.

Where applicants elect claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double

patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicants are advised that the reply to this requirement to be complete must include (i) elections of species and invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicants traverse on the ground that the inventions or species are not patentably distinct, applicants should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory S. Emch whose telephone number is (571) 272-8149. The examiner can normally be reached 9:00 am - 5:30 pm EST (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey J. Stucker can be reached at (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gregory S. Emch/

Gregory S. Emch, Ph.D. Patent Examiner Art Unit 1649
17 March 2008

/Elizabeth C. Kemmerer/ Primary Examiner, Art Unit 1646